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What can we learn about the shapes of heavy nuclei from Coulex of radioactive beams?

Thursday, 24 May 2012 12:00 (30 minutes)

REX-ISOLDE has a unique capability to provide post-accelerated ISOL beams of heavy radioactive nuclei. I will present the latest results from two experimental programmes to measure electric multipole matrix elements in heavy nuclei, from Coulomb excitation of the beam. In these experiments the Coulex yields of nuclear transitions were measured using the MINIBALL germanium detector array and CD silicon detector. These experiments should provide quantitative information about the nature of shape coexistence in Hg-182,-184,-186 and -188, and the nature of octupole correlations in Rn-220 and Ra-224.

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